



DUDA ENERGY LLC

## Safety Data Sheet Stearic Acid Flake

### SECTION 1: Identification

#### 1.1 Product identifier

Product name	Stearic Acid Flake
Product number	N/A
Brand	N/A
Substance name	STEARIC ACID
EC no.	200-313-4
CAS no.	57-11-4

#### 1.2 Other means of identification

None

#### 1.3 Recommended use of the chemical and restrictions on use

This compound is widely used as an additive in industrial preparations. It is also used for suppositories, coating enteric pills, ointments and for coating bitter remedies. It is used in the manufacture of stearates of aluminum, zinc and other metals, stearin soap for opodeldoc, candles, phonograph records, insulators, modeling compounds, impregnating plaster of Paris, vanishing creams and other cosmetics, stearate driers, lubricants, soaps, pharmaceuticals, shoe and metal polishes and food packaging. It is also used as an accelerator activator and dispersing agent and softener in rubber compounds.

#### 1.4 Supplier's details

Name	Duda Energy LLC
Address	1112 Brooks St. Decatur, AL 35601 USA
Telephone	256.340.4866
Fax	Unavailable
email	Unavailable

#### 1.5 Emergency phone number(s)

800.255.3924 (Chemtel)

### SECTION 2: Hazard identification

## 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

## 2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

## 2.3 Other hazards which do not result in classification

May form combustible dust.

# SECTION 3: Composition/information on ingredients

## 3.1 Substances

Substance name	STEARIC ACID
EC no.	200-313-4
CAS no.	57-11-4
Formula	C18H36O2
Molecular weight	284.48
Other names / synonyms	Octadecanoic acid
Impurities and stabilizing additives	No data available

# SECTION 4: First-aid measures

## 4.1 Description of necessary first-aid measures

General advice	Get medical attention if symptoms occur.
If inhaled	Remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	Molten product can cause thermal burns. In case of burns, immediately cool affected skin for as long as possible with cold water. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
In case of eye contact	Molten product can cause thermal burns. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	Molten product can cause thermal burns. Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Personal protective equipment for first-aid responders	N/A

## 4.2 Most important symptoms/effects, acute and delayed

None.

- 4.3 Indication of immediate medical attention and special treatment needed, if necessary**  
Treat symptomatically.

## SECTION 5: Fire-fighting measures

- 5.1 Suitable extinguishing media**  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 5.2 Specific hazards arising from the chemical**  
Avoid creating dust. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.
- 5.3 Special protective actions for fire-fighters**  
Wear SCBA and full protective gear.

### Further information

None

## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation, especially in confined areas. Avoid creating dust. Dust can form an explosive mixture with air.
- 6.2 Environmental precautions**  
This product is insoluble and floats on water. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground, or into bodies of water. Prevent product from entering drains.
- 6.3 Methods and materials for containment and cleaning up**  
Use personal protective equipment as required. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### Reference to other sections

None

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**  
Handle in accordance with good industrial hygiene and safety practice.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Keep containers tightly closed in a dry, cool, and well-ventilated place.  
Incompatible materials: Strong oxidizing agents.

### Specific end use(s)

Making soaps.

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### 1. Octadecanoic acid (CAS: 57-11-4)

TWA (Inhalation): 10 mg/m<sup>3</sup>

## 8.2 Appropriate engineering controls

Use local exhaust ventilation where dust may accumulate. Showers and eyewash stations must be available when handling this material.

## 8.3 Individual protection measures, such as personal protective equipment (PPE)

### Eye/face protection

Wear safety glasses with side shields or safety goggles.

### Skin protection

See Body Protection

### Body protection

To prevent unwanted exposure to material, wear Nitrile gloves (0.11mm min) and long sleeves.

### Respiratory protection

Respiratory protection is not required for this material. Where dust levels are a nuisance, use a type N95 dust mask.

### Thermal hazards

Molten product may present thermal hazard - wear appropriate thermal PPE when handling.

### Environmental exposure controls

Keep product from entering into drains, water ways, ditches, or onto the ground.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Solid Flakes White
Odor	Slight
Odor threshold	No data available
pH	No data available
Melting point/freezing point	53-56°C
Initial boiling point and boiling range	383
Flash point	190°
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability limits	No data available
Upper/lower explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	0.9408 @ 20/4 C [017,047]
Solubility(ies)	Insoluble in water.

Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	Dust can form explosive mixture with air.
Oxidizing properties	No data available
<b>Other safety information</b>	
None	

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Avoid creating dust. Dust can form an explosive mixture with air. Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

LD50

Oral

Rat: >4600 mg/kg

Dermal

Rabbit: >5,000 mg/kg

#### Skin corrosion/irritation

Molten product can cause thermal burns.

#### Serious eye damage/irritation

Dust contact with eyes can lead to mechanical irritation. Molten product can cause thermal burns.

#### Respiratory or skin sensitization

Not a respiratory or skin sensitizer.

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No component of this product (<0.1%) is identified as a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity**

No data available

**Summary of evaluation of the CMR properties**

N/A

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional information**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**SECTION 12: Ecological information****Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

N/A

**Other adverse effects**

No data available

**SECTION 13: Disposal considerations****Disposal of the product**

Dispose of only in accordance with all applicable laws and regulations.

**Disposal of contaminated packaging**

Do not reuse container. Dispose of in accordance with all applicable laws and regulations.

**Waste treatment**

Waste should be gathered and disposed of in accordance with all applicable laws and regulations.

**Sewage disposal**

Do not dispose of into sewers.

**Other disposal recommendations**

None

**SECTION 14: Transport information****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations specific for the product in question****Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act

**New Jersey Right To Know Components**

Stearic Acid CAS No. 57-11-4

**Pennsylvania Right To Know Components**

Stearic Acid CAS No. 57-11-4

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**15.2 Chemical Safety Assessment**

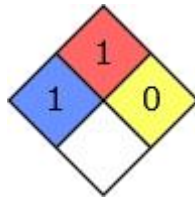
N/A

**HMIS Rating**

STEARIC ACID
HEALTH
1

<b>FLAMMABILITY</b>
1
<b>PHYSICAL HAZARD</b>
0
<b>PERSONAL PROTECTION</b>
X

**NFPA Rating**



## SECTION 16: Other information

### 16.1 Further information/disclaimer

The information provided in this Safety Data Sheet is correct to the best of Duda Energy LLC's knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This Safety Data Sheet only contains information relating to safety and does not replace any product information or product specification. Please note, the content may be changed, corrected, or deleted at any time without notice and may not always necessarily reflect the most current data. Duda Energy LLC will assume no responsibility for any trouble or failure caused by the errors in the information provided, nor any damage associated with the usage of the information.

### 16.2 Preparation information

Version: 2  
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